2

of sexual cross.

## WHAT IS CLAIMED IS:

1	1.	A method of inhibiting programmed cell death in a maize plant		
2	comprising introducing a construct comprising a programmed cell death inducible promoter			
3	operably linked to a nucleotide sequence that inhibits programmed cell death into said plant,			
4	whereby programme	ed cell death in the lower floret of said plant is inhibited.		
1	2.	The method of claim 1, wherein the nucleotide sequence encodes a		
2	plant growth regulator synthesizing enzyme.			
1	3.	The method of claim 2, wherein the enzyme catalyzes the synthesis of		
2	cytokinin.			
1	4.	The method of claim 3, wherein the enzyme is isopentenyl transferase		
1	5.	The method of claim 1, wherein the programmed cell death inducible		
2	promoter is SAG12.			
1	6.	The method of claim 5, wherein the SAG12 promoter is from		
2	Arabidopsis thaliana			
	-			
1	7.	The method of claim 6, wherein the SAG12 promoter is 70% identical		
2	to SEQ ID NO:1.			
1	8.	The method of claim 1, further comprising detecting increased levels		
2	of protein within said plant.			
1	9.	The method of claim 1, further comprising detecting increased levels		
2	of oil within said plant.			
1	10.	The method of claim 1, further comprising detecting increased levels		
2	of oil and protein wi			
_	or on und protein wa	um sate plant.		
1	11.	The method of claim 1, further comprising detecting the presence of a		
2	kernel having multiple embryos.			
1	12.	The method of claim 1, wherein the construct is introduced by a type		

1

13.

2	transformation.			
1	14. A transgenic maize plant comprising an expression cassette comprising			
2	a programmed cell death -inducible promoter operably linked to a nucleotide sequence			
3	encoding an inhibitor of programmed cell death, the maize plant having kernels with multiple			
4	embryos.			
1	15. The transgenic plant of claim 14, wherein the nucleotide sequence			
2	encodes a plant growth regulator synthesizing enzyme.			
1	16. The transgenic plant of claim 15, wherein the enzyme catalyzes the			
2	synthesis of cytokinin.			
1	17. The transgenic plant of claim 16, wherein the enzyme is isopentenyl			
2	transferase.			
1	18. The transgenic plant of claim 14, wherein the programmed cell death			
2	inducible promoter is SAG12.			
1	19. A kernel from a transgenic maize plant comprising multiple embryos,			
2	wherein the kernel has increased oil and protein content.			
1	20. A method of inhibiting programmed cell death in a maize plant			
2	comprising introducing a promoter from a floret specific gene operably linked to a nucleotide			
3	sequence that inhibits programmed cell death into said plant, whereby programmed cell death			
4	in the lower floret of said plant is inhibited.			
1	21. The method of claim 20, wherein the floret specific gene is associated			
2	with programmed cell death.			
1	22. The method of claim 20, wherein the floret specific gene is not			
2	associated with programmed cell death			
1	23. The method of claim 20, wherein the nucleotide sequence encodes a			
2	plant growth regulator synthesizing enzyme.			

The method of claim 1, wherein the construct is introduced by

1		24.	The method of claim 23, wherein the enzyme catalyzes the synthesis of	
2	cytokinin.			
1		25.	The method of claim 24, wherein the enzyme is isopentenyl	
2	transferase.			
1		26.	The method of claim 20, further comprising detecting increased levels	
2	of oil and protein within said plant.			
1		27.	The method of claim 20, further comprising detecting the presence of a	
2	kernel having multiple embryos.			